

XH G15 XHA19 **3CCD High Definition** Professional Camcorders





Introducing the XH G1s and XH A1s – the newest generation from Canon's professional camcorder range. Featuring the DIGIC DV II image processor and three CCDs with 1.67 megapixels each, every frame has excellent image quality with precise colour reproduction. A superb Canon Genuine Canon 20x zoom HD lens with Professional L Series Fluorite and Super Range Optical Image Stabilization ensures that optical quality and sharpness is second to none.

To further ensure your vision is realized, the XH G1s and XH A1s lets you make manual adjustments to fine-tune videos to your exact specifications. Much of the camcorders can be customized to work they way you want them to. For industry-standard connectivity, the XH G1s even has a professional jackpack that allows it to integrate seamlessly with your existing production environment.

For the perfect balance of flexibility, versatility and capability and an extensive array of features, the $XH\ G1S$ and $XH\ A1S$ will meet and exceed even the highest expectations.



TRUE HD IMAGE QUALITY

in a class of its own

Triple 1/3" Native 16:9 CCDS

The sophisticated 3CCD design used by the XH G1s and XH A1s employs separate native 16:9 interlaced CCD sensors with 1.67 million pixels (1440 x 1080 pixels) each. This means you get exceptional video resolution and picture quality with precise colour reproduction, low noise, and a wide dynamic range.



Selectable Frame Rates

Capture and output video with your desired frame rate to evoke a different look and feel for your videos. Apart from the standard 50i and 25F PAL frame rate settings, the camcorder can also be modified at any Canon Service Centre to include the 60i, 30F, and 24F NTSC settings. Modified camcorders offer the option of switching to 50i or 60i capture in HD mode and PAL or NTSC compatibility when shooting in standard definition mode.

Videos [Effective Pixels]

HD when selected	Approximate 1.56 megapixels (1440 x 1080 pixels)
SD (16:9) when selected	Approximate 1.56 megapixels (1440 x 1080 pixels)
SD (4:3) when selected	Approximate 1.17 megapixels (1080 x 1080 pixels)

Still Images [Effective Pixels]

SD (16:9) when selected	Approximate 1.56 megapixels (1440 x 1080 pixels)
SD (4:3) when selected	Approximate 1.17 megapixels (1080 x 1080 pixels)

DIGIC DV II Image Processor

Engineered and manufactured by Canon, the DIGIC DV II image processor uses proprietary algorithms to deliver superb image quality at ultra-fast processing speeds. Operating at a 1440 x 1080 pixel resolution, colour and tonal range are reproduced with amazing precision – especially in skin tones areas and in dark and light scenes.



DIGIC DV II includes a hybrid noise reduction system that uses inter-frame and intra-frame prediction to ensure virtually noise-free video output. This, along with a new gamma system, reduces noise in monotone and shadow areas to give you crystal clear high definition images.



Genuine Canon HD 20x Zoom Lens

To ensure the XH G1s and XH A1s deliver only the highest degree of HD image quality, both camcorders utilise a high-performance Genuine Canon HD 20x zoom lens to capture pixel perfect HD imagery.





Harnessing the best of Canon's optical technologies, this professional L Series fixed lens incorporates Fluorite and Ultra-Low Dispersion elements that guarantee outstanding image resolution, contrast, and colour reproduction throughout the entire zoom range. The lens's 20x zoom capability covers an extensive range of focal lengths from 32.5 to 650mm (35mm film equivalent), giving you exceptional versatility for a wide variety of shooting applications.

Focus, Zoom, Iris Control

Located on the barrel of the 20x zoom lens are three manual adjustment rings – one each for focus, zoom, and iris – that can be operated simultaneously in either manual or autofocus mode. Each ring has a different shape and texture so that they can be identified by touch. Large steps have also been set between the rings to prevent accidental misuse.

A motorised high-speed zoom capability and 16 speed level settings (fixed/variable) enables you to achieve a wide range of zoom effects, while programmable lens presets enable frequently used focus and zoom actions to be saved for instant recall. The focus and zoom ring also have three levels of selectable responsiveness from more precise adjustments.



Super Range Optical Image Stablizer

The Super Range Optical Image Stabilizer (OIS) is capable of detecting vibrations across a wide frequency range. As a precision hybrid system, it works by combining electronic camcorder shake detection with lens gyros that move the lens ('lens shift') to compensate for camcorder movement. This allows the camcorder to detect low frequency movements, such as slight body motion, that are outside the range of regular OIS systems. The result is highly effective camcorder shake correction even at long focal lengths.

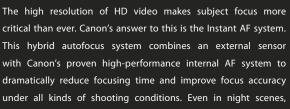


Without Super Range OIS



With Super Range OIS

Instant AF



low contrast, or high brightness situations, Instant AF gives you perfect focus at the push of a button.

Neutral Density Filters

Two built-in Neutral Density (ND) filters (1/6 and 1/32) reduce exposure by two or five stops for added image control. Particularly useful when shooting in bright, sunlit conditions.

TOTAL IMAGE CONTROL for videos you desire

Gain	Select automatic gain control or one of 3 preset gains (low, medium, or high) which can be assigned values from -3 dB to +36 dB.
White Balance	Choose from Auto, Set (2 positions), Outdoor (5,600 k), Indoor (3,200 k), and Colour Temperature. Fine-adjustments of presets (-9 to $+9$) also possible.
Black	Three settings (STRETCH, MIDDLE, PRESS) provide a choice of dynamic range adjustment affecting the dark areas of the image.
Knee	Four settings (AUTO, HIGH, MIDDLE, LOW) provide a choice of dynamic range (knee point) adjustment in the highlight areas to control overexposure.
Gamma	The NORMAL gamma curve provides the best results for conventional viewing on a TV monitor. CINE 1 creates images that resemble the quality and appearance of film as viewed on TV. The CINE 2 setting selects an appropriate gamma curve for images that will be transferred to film.
Master Pedestal	Adjust the video black reference from -9 to +9. Higher values brighten the darker areas of the image, reducing overall contrast.
Setup Level	Black level can be adjusted from -9 to +9.
Sharpness	Image sharpness can be adjusted from -9 to +9.
Horizontal Detail Frequency	Adjusts the H detail centre frequency. Can be set to HIGH (high range), MIDDLE (middle range), and LOW (low range).





The XH G1s and XH A1s gives you control over dozens of independently adjustable image variables, so you can achieve a perfect look and feel for your videos.

Noise Reduction 1 & 2

Provides a variety of methods and levels of noise reduction to accommodate numerous shooting situations and desired image qualities.

Colour Matrix

NORMAL setting is a matrix suited for videos to be reviewed on a TV monitor. CINE 1 gives a

r IVIATRIX NORMAL setting is a matrix suited for videos to be reviewed on a TV monitor. CINE 1 give resulting quality and greyscale suitable for images on TV that resemble those in a movie, while CINE 2 is a matrix setting for images being transferred to film.

Colour Gain/Phase Adjustable from -50 to +50 and -9 to +9 respectively.

Six Colour Matrixes

 $Master\ RGB\ Gain \qquad \text{Independently adjustable from -50 to +50, provides precise control over colour balance}.$

RG, RB, GR, GB, BR, BG matrixes, each independently adjustable from -50 to +50, provides even finer colour control by altering two of the three primary colours.



Program AE Modes

To meet all shooting requirements, seven programmed Auto Exposure Modes are available for selection.

Full Auto The camcorder automatically sets Focus, Shutter Speed, Aperture, Gain, White Balance, and AE Program Shift to deliver the best possible results.

Auto Similar to Full Auto, this mode provides point-and-shoot simplicity but with the option of manually changing certain settings.

Shutter Priority

The user selects the Shutter Speed while the camcorder automatically selects the proper Aperture for correct exposure.

Aperture Priority

The user selects the lens aperture size while the camcorder automatically selects the proper Shutter Speed for correct exposure.

Manual The user can select any combination of Aperture and Shutter Speed.

Spotlight The camcorder automatically adjusts exposure for optimum results when the subject is illuminated by a concentrated light source (such as a spotlight) while the background is relatively dark.

Night The camcorder selects slower Shutter Speeds to capture proper exposure in low lighting conditions.

Compatible with MiniDV Tapes

The XH G1s and XH A1s record both HD and SD formats on MiniDV tapes, allowing users



the convenience of switching between formats while using the same recording media. High-grade digital videocassette tapes can be used for application where high robustness is critical, and consumer-grade tapes utilised for more economical applications.





Still Image Capture

Apart from recording HD videos, the XH G1s and XH A1s can also capture digital still images to a memory card. Still images can be captured at Full HD (1920 x 1080) resolution. This allows the camcorder to have many other applications complementing its video-recording capabilities such as making images for promotional videos,

documentaries, news stories and storyboarding. A still image histogram and EXIF metadata adds more functionality while features such as auto exposure bracketing, selectable metering modes, continuous shooting and the ability to use EOS System Speedlite flashes have also been included.

SUPERIOR CONNECTIVITY

from shooting to production

Interfaces for Every Objective

The XH G1s and XH A1s provide users with a full range of input and output ports to meet just about any interface requirement. This includes the following interfaces:

- Two XLR Mic/Line Terminals
- HDV/ DV Terminal (IEEE1394)
- Component Output
- Video (V2) Jacks (BNC Connector/Output only)
- LANC Terminal
- Headphone Jack with Volume Control
- Microphone Terminal (3.5mm Stereo Mini-Jack)
- AV Terminal (3.5mm 4-pin Mini-Jack Input/Output)
- Memory Card Connector (SD Cards, MultiMediaCards supported)



Professional Jackpack*

While smaller HD camcorders give you greater portability, they may not be suitable for professional applications as they lack the necessary interface capability. But with the XH G1s, you get the best of both worlds.

The camcorder features a Professional JackPack with HD/SD-SDI output, GENLOCK input, and SMPTE Time Code in/out connectors that make it compatible with most professional setups. The HD/SD-SDI interface can delivers full resolution uncompressed HD/SD-SDI video output. GENLOCK enables multi-camcorder synchronization in live-switched environments, while the SMPTE input/output port accommodates time code requirements during multi-camcorder shoots and post-production.

* XH G1s only



HD-SDI

Video: complied with SMPTE292M Embedded audio standard: Compliant with SMPTE299M Time code standard: Compliant with SMPTE RP 188 (LTC)

SD-SDI

PAL:

576/50i: Compliant with ITU-R BT.656 Embedded audio standard: Compliant with SMPTE272M Time code standard: Compliant with SMPTE RP 188 (LTC)

NTSC:

480/60i: Compliant with SMPTE259M Embedded audio standard: Compliant with SMPTE272M Time code standard: Compliant with SMPTE RP 188 (LTC)

SMPTE Time Code Input & Output Terminals

Genlock Input (HD or SD reference signal synchronization in Genlock HD mode)



Flash Accessory Shoe

Optional accessories such as E-TTL II Canon Speedlite flashes can be mounted on to the camcorder's flash hotshoe for more versatile shooting.

New Audio Recording Features

Apart from the standard 2-channel audio recording capability, various new functions have been added for greater control over audio recording. They include separate sensitivity settings (CH1, CH2), simultaneous use of built-in microphone and XLR input, audio limiter switch, XLR microphone sensitivity selection, and output channel switching.

CANON CONSOLE

Canon Console is an advanced software package developed to address the creative needs of modern users. Incorporating many of the traditional aspects of a camcorder control unit, it gives users remote access to basic camcorder settings and operations from a laptop or desktop computer.

With Console, video footage can also be directly recorded to a computer's hard drive while allowing you to view the on-screen vectrascope and waveform monitors. Camcorder operators can use the software in a variety of shooting conditions, like mounting the camcorders on a crane, studio, or in an inaccessible location.

* A single IEEE1394 cable is needed to connect the XH G1s/A1s to a PC.

CUSTOMIZE TO WORK

the way you want it to

Compact Design

Not only are the XH G1s and XH A1s full of professional quality features and functions, they are also designed for optimum portability that gives users a high level of mobility when using them. The reduced size and weight of these camcorders make them easily transportable and manoeuvrable major advantages for location work and shooting in tight spaces.

Customization Features

Various customization features allow the camcorder to be precision-tailored for different environments, users, and objectives. In all, there are 23 image adjustment, 22 display options, and 21 custom function settings that can be changed during operation. These settings can then be saved and exported to other Canon Pro DV camcorders* using an SD card or Canon's Console software, making it easy to set up multiple camcorders at the same shoot.

* Selected models only

Optional Hard Disk Drive Recording

Canon offers professionals in the field the option of recording video to HDV tape and directly to an external Hard Disk Drive by using the FS-CV DTE Recorder.

Other New Features

- Push AE available in Manual Mode
- AGC LIMIT, IRIS LIMIT and FOCUS LIMIT Functions included
- Gain Fine Tuning (Any setting from 0 dB to 18 dB in increments of 0.5 dB)
- Supports Large-Capacity MMC Cards (4GB or more)
- Colour Temperature Setting Range increased to 2,000 K to 15,000 K
- Magnifying possible during movie recording
- 2-Step switching for Line Output Level
- -18 dB Test Tone added

Custom Presets

Store up to 9 sets of customised image adjustments in the camcorder for instant recall. Two Custom Keys can also be programmed to provide instant access to a number of shooting functions.



High-Resolution Widescreen LCD and EVF

See with absolute clarity with the high-resolution LCD monitor and electronic viewfinder. The 0.57" widescreen EVF has approximately 269,000 dots for unsurpassed image sharpness, while the 2.8" 16:9 widescreen LCD displays images using 207,000 dots. Choose from 22 levels of shooting data display as well as an image only option. Peaking, magnifying (2x), and zebra pattern display are also available.

Frame Overlays

Aspects guide for industry-standard picture formats including 4:3, 13:9, 14:9, 1.66:1, 1.75:1, 1.85:1, and 2.35:1 are available for display on the viewfinder. A centre crosshair mark, horizontal level marker and a grid can also be shown.

Memory Card Slot

Several memory card formats can be used with the XH G1s and XH A1s, including SD, SDHC and MultiMediaCards. They allow users to transfer custom settings from camcorder to camcorder and are used to store digital still images taken with the camcorder.



Improved Monitoring Features

To assist you in making sure that the shots you see are the shots you get, the XH G1s and XH A1s has a number of enhancements in function monitoring. They include a display of remaining recording capacity when using an external Focus Enhancements FS-CV Hard Disk Drive Recorder, as well as an external EVF Monitor Output Terminal.

4:3 Video Output

A 4:3 output is included, especially useful in situations where a widescreen monitor is not available for viewing 16:9 footage. Videos shot in 16:9 format will be displayed in letterbox format when viewed on a standard definition 4:3 monitor.





Specifications

Video Recording System Two Rotating Heads, Helical Scan Azimuth Recording; HDV 1080i; DV Consumer Digital VCR SD Specifications (PAL: Compliant with PAL System: 1080/50i) (NTSC: Compliant with NTSC System: 1080/60i) Audio Signal Recording HDV recording: 2-channel recording/MPEG1 Audio Layer II (Sampling frequency: 48 kHz / Bit rate: 384 kbps) DV recording: PCM digital audio 16-bit (48 kHz), 12-bit (32 kHz) / 4-channel recording not possible 1/3-inch, 3 CCDs, Approx. 1.67 Megapixels per CCD Image Sensor **Tape Format** Videocassettes bearing the "MiniDV" mark Tape Speed Approx. 18.83 mm/sec (HDV/DV: SP Mode) Approx. 18.81 mm/sec (HDV/DV: SP Mode) Approx. 12.57 mm/sec (DV: LP Mode) · Approx. 12.56 mm/sec (DV: LP Mode) Recording/Playback Time • Max. 80 minutes (HDV/DV: SP Mode) / Max. 120 minutes (DV: LP Mode) Viewfinder (CVF) 0.57-inch Colour Wide-Screen LCD display with approx. 269,000 dots LCD Panel 2.8-inch Colour Wide-Screen LCD display with approx. 207,000 dots Built-In Microphone Stereo (using Electret Condenser Microphone) • 1080/50i, 25F (PAL/50i) Frame Rate • 1080/60i, 30F, 24F (NTSC/60i) Lens Interchangeability Image Stabilizer Super Range Optical Image Stabilizer (Lens-Shift System) AF System Instant AF System - Hybrid AF (TTL-Video Signal Detection System and External Phase Difference Metering System) and Normal AF (TTL-Video Signal White Balance TTL 128-Segments, New White Extraction System FAWB. Includes Auto, Set (2 positions), Preset (Outdoor: 5,600K, Indoor: 3,200K), Colour Temperature "Auto" during Full Auto Mode. HDV/DV Terminal: Special 6-pin (IEEE1394 compatible) (Both Input/Output) VIDEO (V2) Terminal: BNC Connector (Output only) AV (A/V1) Terminal: 3.5 mm 4-pin Mini-Jack (Both Input/Output) XLR Terminal: XLR 3-Pin Jack (2 systems); Switchable between MIC/LINE Microphone Input Jack: 3.5 mm Stereo Mini-Jack Headphone Input Jack: 3.5 mm Stereo Mini-Jack Component Terminal: • PAL: 1080i/576i supported NTSC: 1080i/480i supported LANC Terminal: 2.5 mm Stereo Mini-Jack Battery Terminal: Special 5-pin Memory Card: Special Multi-pin ONLY APPLICABLE TO XH G1s GENLOCK Terminal: BNC Connector (Input only) HD/SD-SDI Terminal: BNC Connector (Output only) • SD-SDI, PAL: Compliant with ITU-R BT.656, SMPTE272M, SMPTE RP 188 (LTC) • SD-SDI, NTSC: Compliant with SMPTE259M, SMPTE272M, SMPTE RP 188 (LTC) • HD-SDI: Compliant with SMPTE292M, SMPTE299M, SMPTE RP 188 (LTC) Time Code Terminal: BNC Connector, 1 System (Input or Output Set Manually) For Performance: 0 to 40°C, 85% (Relative Humidity) / For Operation: -5 to 45°C, 60% (Relative Humidity) Operating Temperature DC7.4 V (Battery Pack) Dimensions (W x H x D) • Approx. 163 x 192 x 394 mm (6.4 x 7.6 x 15.5 in) (Not including the Grip Belt, including the Lens Hood and Eyecup) • Approx. 140 x 189 x 321 mm (5.5 x 7.4 x 12.6 in) (Not including the Lens Hood, Eyecup and Grip Belt) Approx. 2135 g (4.7 lb) (Not including the Lens Hood and Eyecup) Approx. 2200 g (4.9 lb) (Not including the Lens Hood and Eyecup) Approx. 2400 g (5.3 lb) (Including the Lens Hood, Eyecup, BP-950G, Approx. 2465 g (5.4 lb) (Including the Lens Hood, Eyecup, BP-950G,

Tape and Memory Card)

Custom Display Settings

Item No. Description C.Fn-00 Recording Mode Icon C.Fn-01 Camcorder Data 1 C.Fn-02 Camcorder Data 2 C.Fn-03 Zoom Indicator C.Fn-04 Focus Distance Display C.Fn-05 ND Filter Displays C.Fn-06 Image Effects C.Fn-07 Focus Assist Functions C.Fn-08 Customised Functions C.Fn-09 HD Standard Icon C.Fn-10 Recording Mode in Standard Definition C.Fn-11 Frame Rate Display C.Fn-12 Tape-Related Icons and Displays C.Fn-13 Remaining Time on the Tape C.Fn-14 Tape/Card-Related Displays C.Fn-15 Light Metering-Related Displays C.Fn-16 Still Images-Related Icons C.Fn-17 Remaining Still Images on Memory Card C.Fn-18 Audio-Related Displays C.Fn-19 Condensation Warning Icon C.Fn-20 Battery-Related Displays C.Fn-21 Wireless Remote Display

Custom Function Settings

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ltem No.	Description	
C.Fn-00	Shockless White Balance / Gain	
C.Fn-01	AE Response	
C.Fn-02	Zoom Ring Control	
C.Fn-03	Zoom Key Speed	
C.Fn-04	Focus Ring Control	
C.Fn-05	Buttons Operation 1	
C.Fn-06	Buttons Operation 2	
C.Fn-07	Ring Operation Direction	
C.Fn-08	Dial Operation Direction	
C.Fn-09	IRIS Limit	
C.Fn-10	Photo Button	
C.Fn-11	Marker Level	
C.Fn-12	Focus Assist Black & White Interlock	
C.Fn-13	Object Distance Unit	
C.Fn-14	Zoom Indicator	
C.Fn-15	Colour Bars	
C.Fn-16	1kHz Test Tone	
C.Fn-17	LANC AE Shift	
C.Fn-18	Tally Lamp	
C.Fn-19		
C.Fn-20	Custom Recording	

Package Contents

- XH A1s/XH G1s Camcorder Body
- Wireless Controller (WL-D5000)
- Battery Pack (BP-950G)
- Compact Power Adapter (CA-920)
- Power Supply Coupler (DC-920)
- AC Cable
- Stereo Cable (STV-290N)
- Shoulder Strap (SS-1100)
- Digital Videocassette (HDVM-E63PR)
- SD Memory Card (SD-32M)
- D Terminal Component Cable (DTC-1000)
- Lens Hood
- Eyecup
- 2 x AA Battery (For WL-D5000)
- Adjustable Band (For External Microphone Holder)
- Tripod Adapter Base
- Lens Cap



Optional Accessories

- Filter Set (FS-72U)
- Wide Converter (WD-H72)
- Battery Video Light (VL-10Li II/VL-10Li)
- Zoom Remote Controller (ZR-1000/ZR-2000)
- Battery Pack (BP-950G/970G/930/945)
- Car Battery Adapter (CB-910/920)
- Dual Battery Charger/Holder (CH-910)
- System Case (HC-4200)
- DV Cable (CV-250F)
- SCART Adapter PC-A10
- Tripod Adapter (TA-100)
- Shooting Brace (SBR-1000)
- Canon Speedlite (220EX/420EX/430EX/430EX II/550EX/580EX)



Wide-Converter (WD-H72)

Attachment Screw Diameter : ø72mm, P0.75 Magnification : Approx. 0.8x

Optical System : 4 Groups, 4 Lens (Multi-Coating)

*Exclusively for XH G1s and XH A1s



System Case (HC-4200)

Aluminium Trunk Case Dimensions

Height: Approx. 342 mm
Width: Approx. 427 mm
Depth: Approx. 243 mm



Battery Video Light (VL-10Li II)

Lock-support pin added to prevent accidental slipping out from the accessory-shoe by inserting the pin into the dimple of the base. Pin can retract (by spring) to fit shoes without dimple.



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